

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086269.D
 Acq On : 14 Apr 2025 15:14
 Operator : JC\MD
 Sample : PB167573ZHE#09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#09

Quant Time: Apr 15 03:11:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

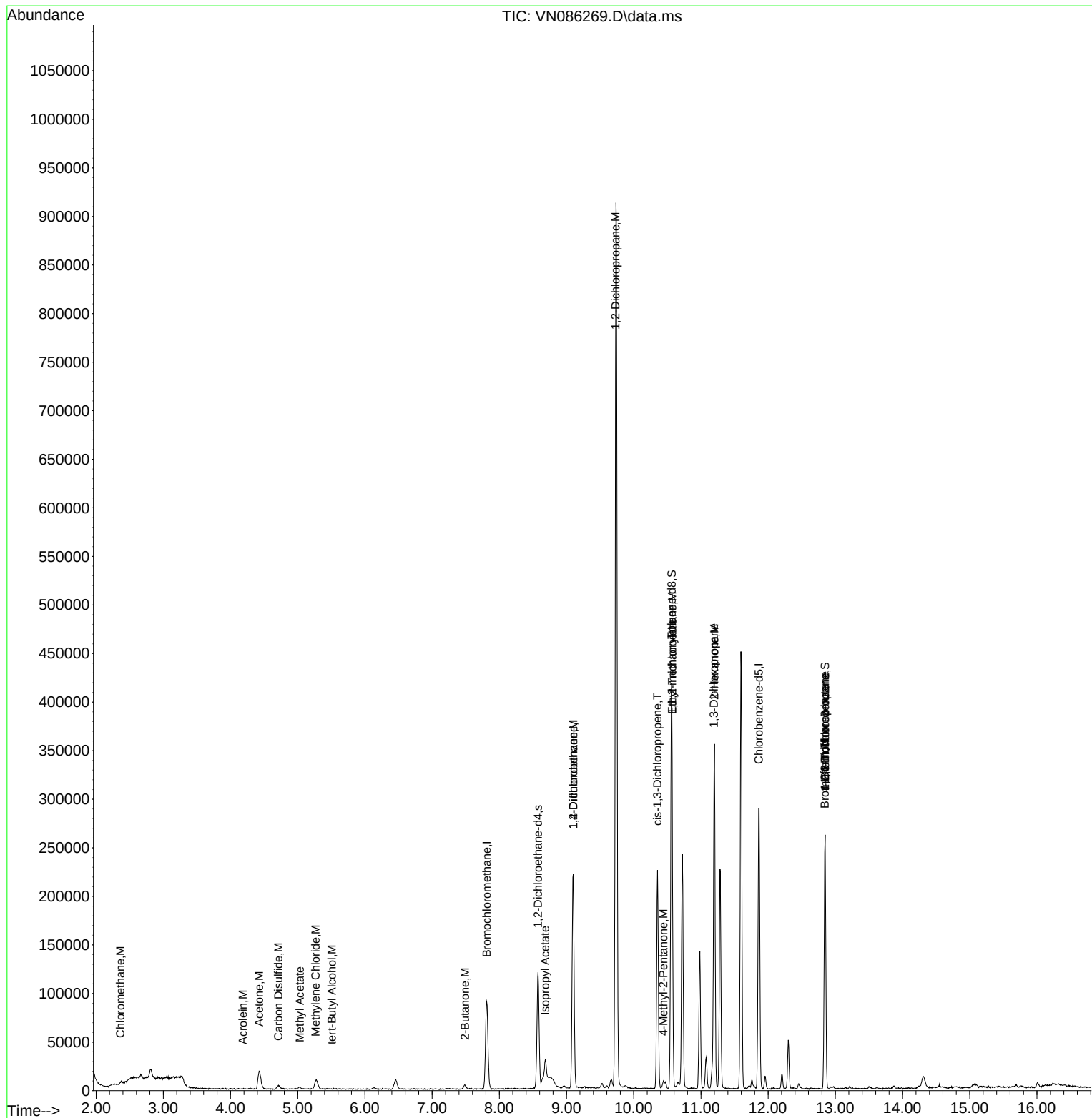
Internal Standards						
1) Bromochloromethane	7.812	128	33266	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	195015	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	173995	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	96929	29.873	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.567%		
60) 4-Bromofluorobenzene	12.847	95	98349	28.390	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.633%		
63) Toluene-d8	10.565	98	293134	29.842	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.467%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1060	0.288	ug/l #	81
12) Methyl Acetate	5.030	43	3845	1.075	ug/l	99
13) Acrolein	4.183	56	97	0.239	ug/l #	1
15) Acetone	4.424	58	11834	30.907	ug/l	80
16) Carbon Disulfide	4.712	76	3997	0.550	ug/l #	84
18) Methylene Chloride	5.265	84	3554	1.231	ug/l	93
23) tert-Butyl Alcohol	5.506	59	161	0.257	ug/l #	100
30) 2-Butanone	7.489	43	7107	3.671	ug/l #	95
36) 1,2-Dichloroethane	9.100	62	6581	1.892	ug/l #	72
39) 1,2-Dichloropropane	9.730	63	646	0.234	ug/l #	42
44) Isopropyl Acetate	8.683	43	46874	6.471	ug/l #	71
49) cis-1,3-Dichloropropene	10.353	75	42723	9.305	ug/l #	57
50) 1,1,2-Trichloroethane	10.571	97	9138	3.648	ug/l #	1
51) Ethyl methacrylate	10.571	69	1425	0.306	ug/l	67
52) 1,3-Dichloropropane	11.194	76	3724	0.834	ug/l #	42
56) Bromoform	12.841	173	592	0.330	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	5019	1.271	ug/l #	84
59) 2-Hexanone	11.200	43	54612	18.575	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	49421	14.291	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	49421	30.995	ug/l #	12

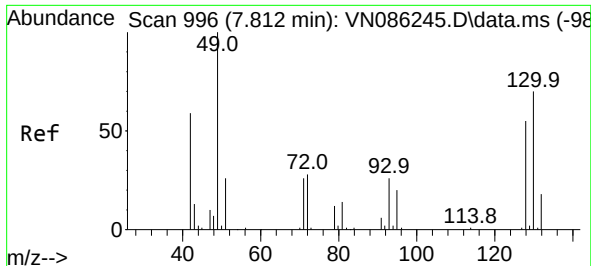
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 15 03:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

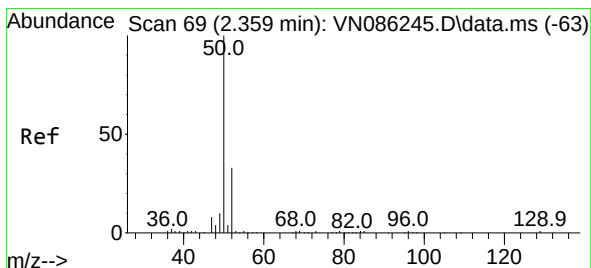
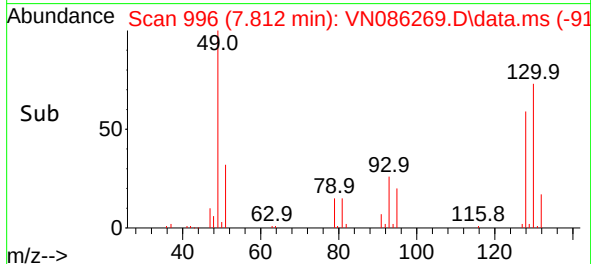
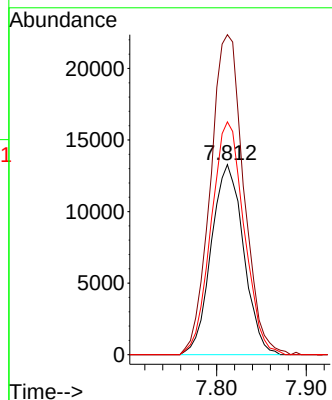
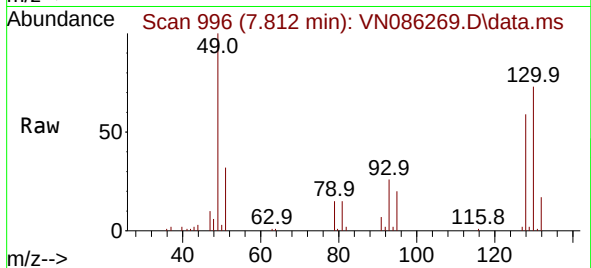




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

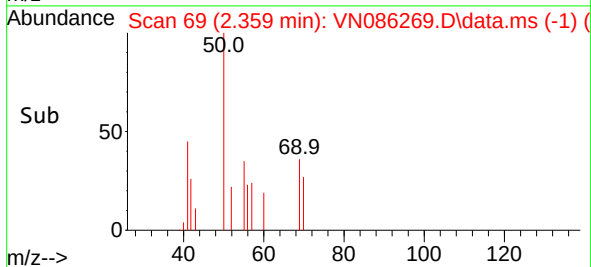
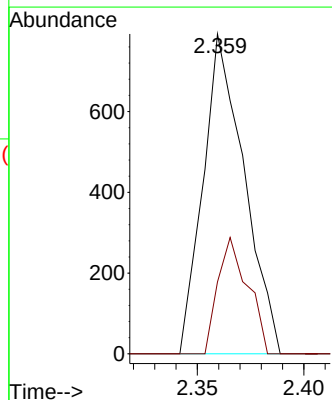
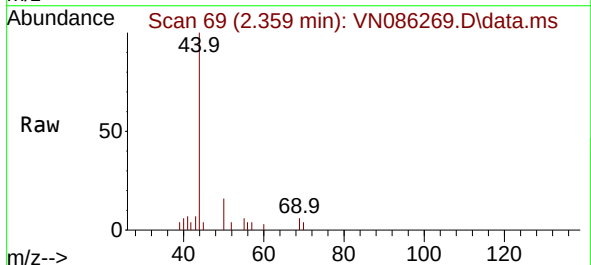
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#09

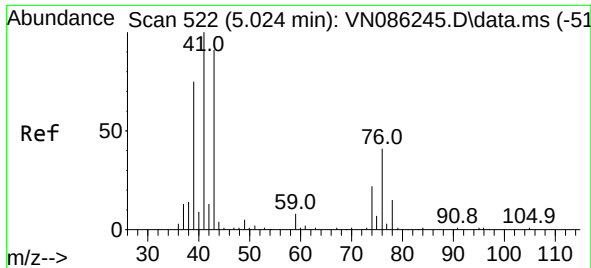
Tgt Ion:128 Resp: 33266
Ion Ratio Lower Upper
128 100
49 173.0 0.0 452.5
130 125.0 0.0 315.0



#3
Chloromethane
Concen: 0.288 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

Tgt Ion: 50 Resp: 1060
Ion Ratio Lower Upper
50 100
52 22.5 26.4 39.6#

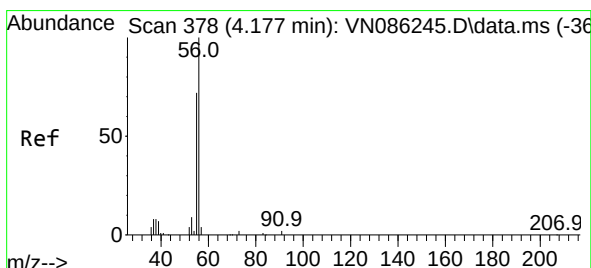
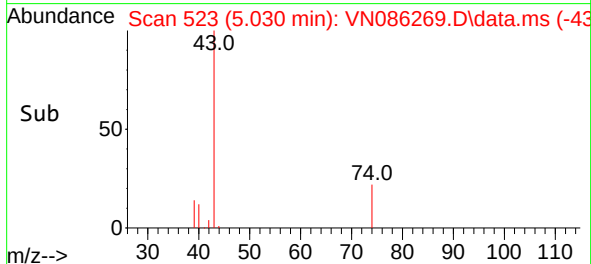
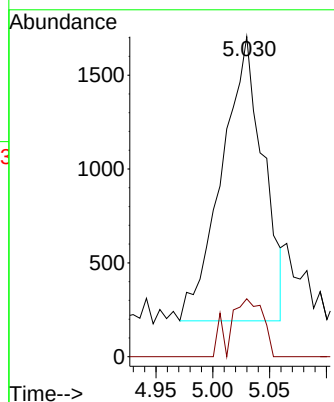
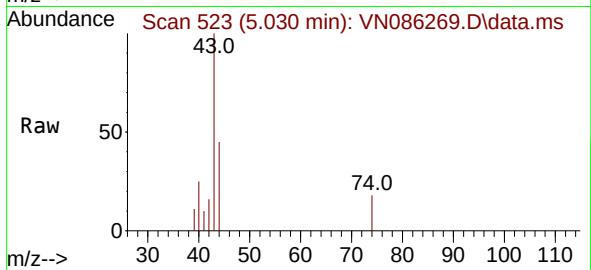




#12
Methyl Acetate
Concen: 1.075 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

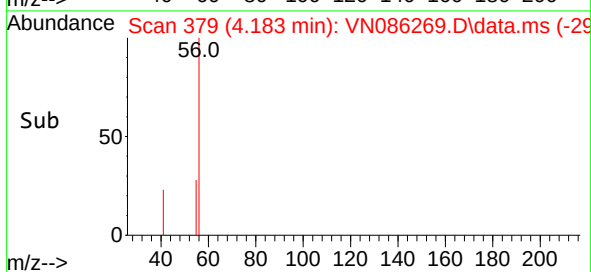
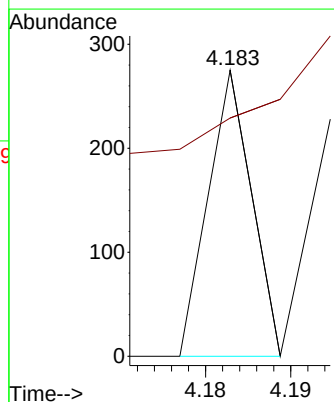
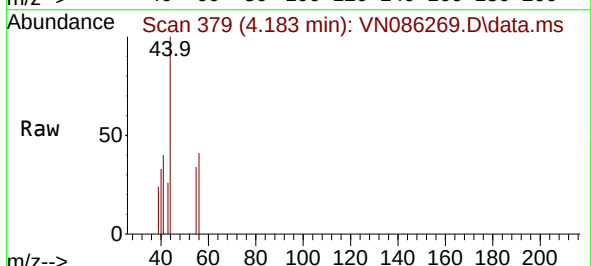
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#09

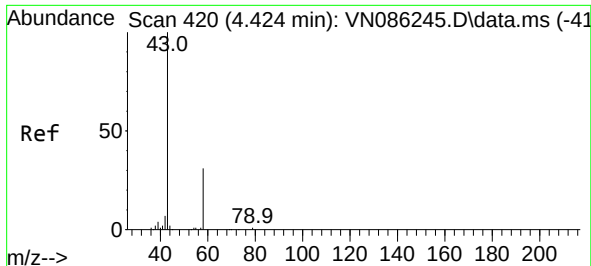
Tgt Ion: 43 Resp: 3845
Ion Ratio Lower Upper
43 100
74 23.4 19.1 28.7



#13
Acrolein
Concen: 0.239 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

Tgt Ion: 56 Resp: 97
Ion Ratio Lower Upper
56 100
55 445.4 56.5 84.7#

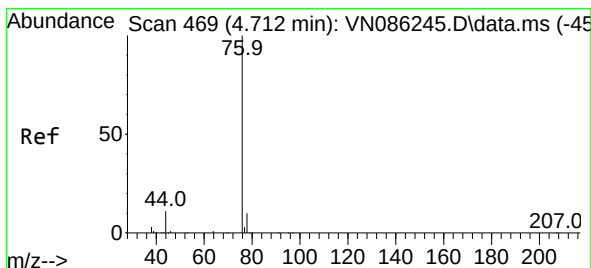
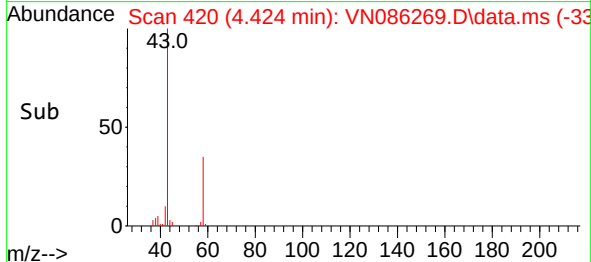
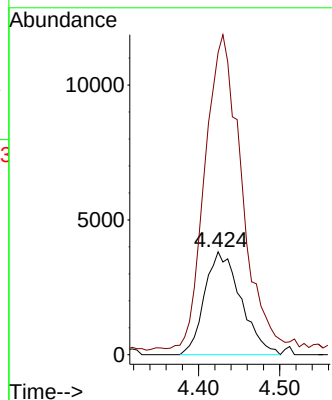
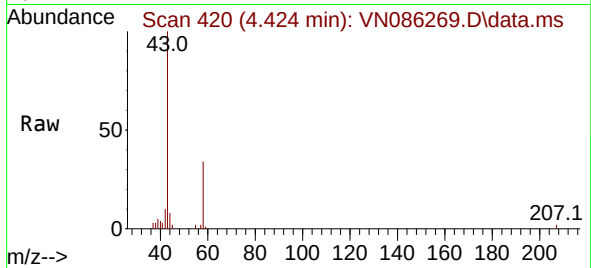




#15
Acetone
Concen: 30.907 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

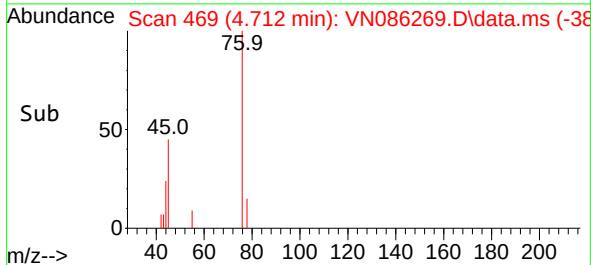
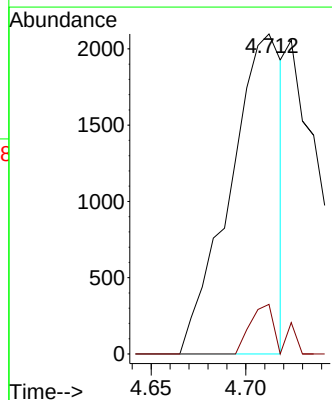
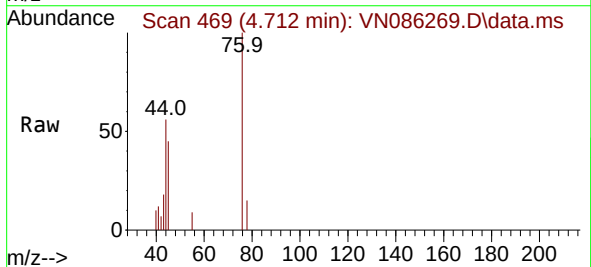
Instrument :
MSVOA_N
ClientSampleId :
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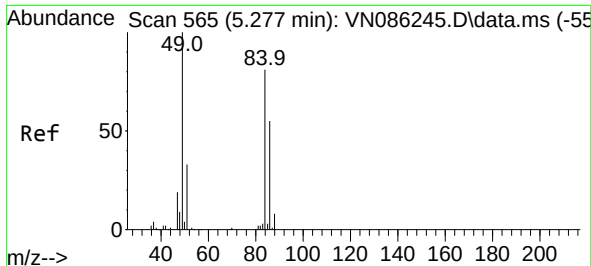
Tgt Ion: 58 Resp: 11834
Ion Ratio Lower Upper
58 100
43 284.8 261.8 392.8



#16
Carbon Disulfide
Concen: 0.550 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

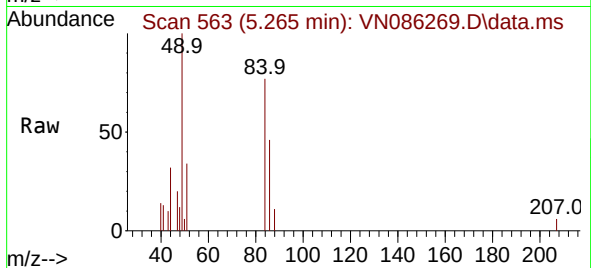
Tgt Ion: 76 Resp: 3997
Ion Ratio Lower Upper
76 100
78 15.5 7.7 11.5#



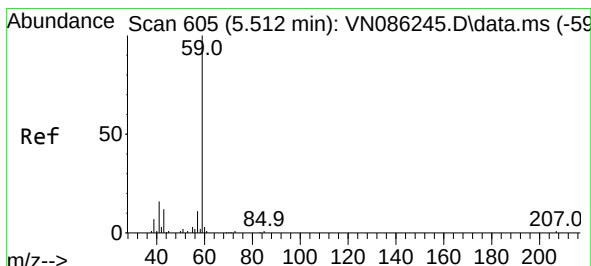
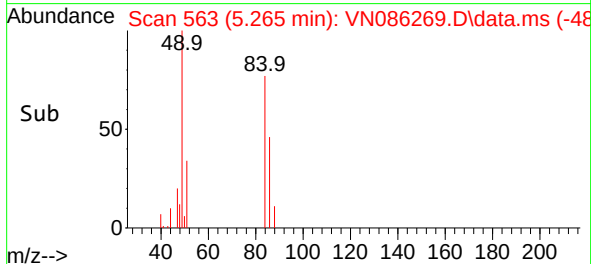
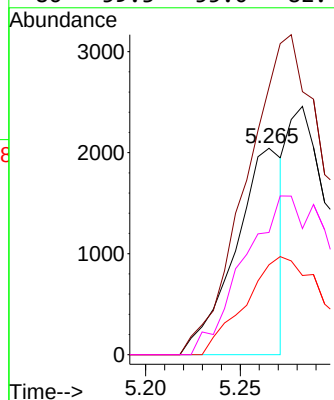


#18
Methylene Chloride
Concen: 1.231 ug/l
RT: 5.265 min Scan# 509
Delta R.T. -0.012 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#09

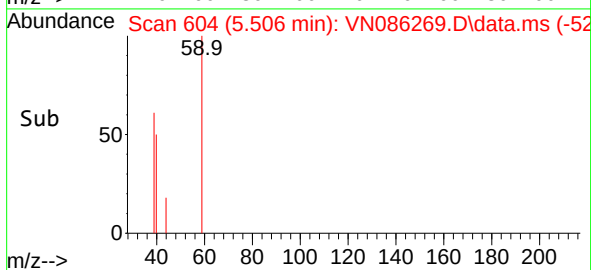
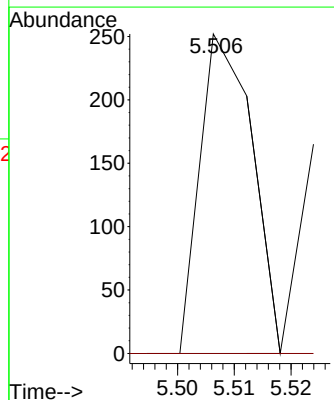
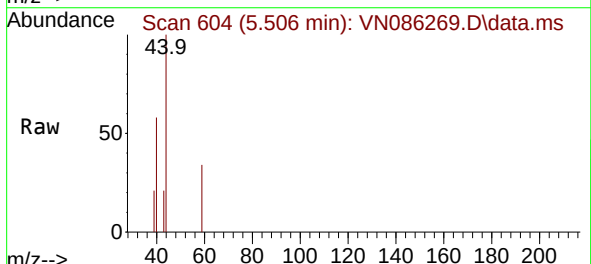


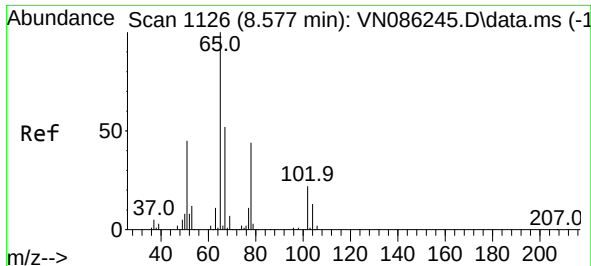
Tgt Ion:	84	Resp:	3554
Ion	Ratio	Lower	Upper
84	100		
49	129.6	99.1	148.7
51	43.6	32.3	48.5
86	59.3	55.0	82.4



#23
tert-Butyl Alcohol
Concen: 0.257 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

Tgt Ion:	59	Resp:	161
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

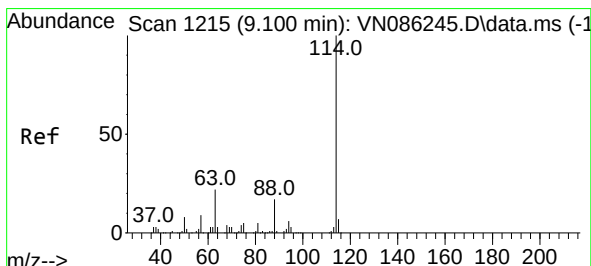
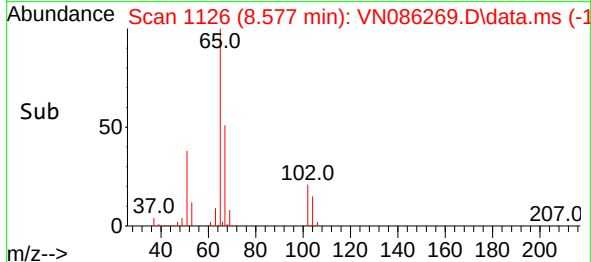
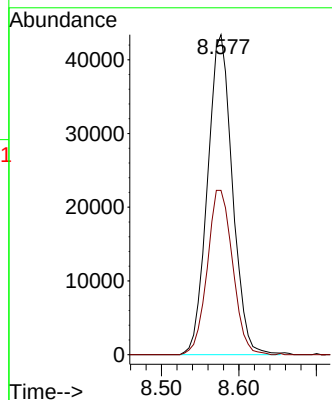
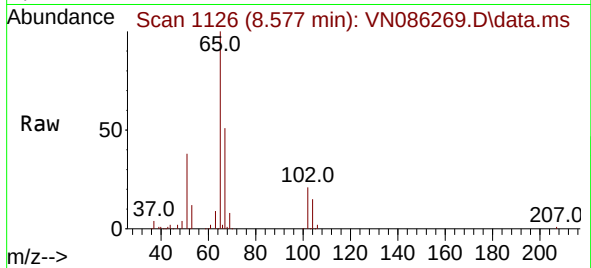




#27
 1,2-Dichloroethane-d4
 Concen: 29.873 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN086269.D
 Acq: 14 Apr 2025 15:14

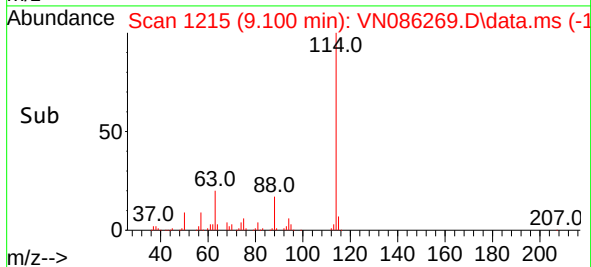
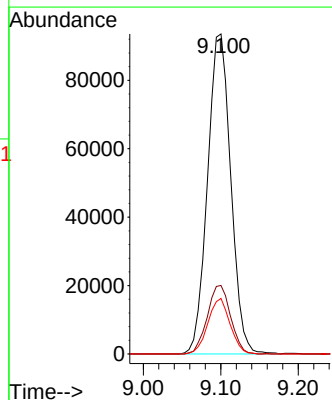
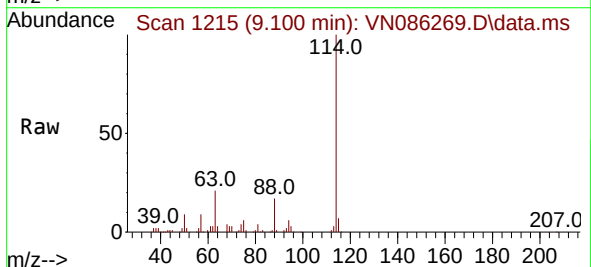
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#09

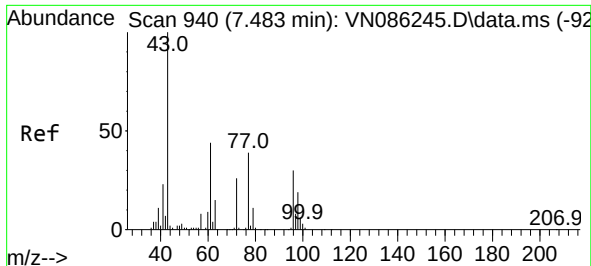
Tgt Ion: 65 Resp: 96929
 Ion Ratio Lower Upper
 65 100
 67 52.4 43.4 65.2



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN086269.D
 Acq: 14 Apr 2025 15:14

Tgt Ion: 114 Resp: 195015
 Ion Ratio Lower Upper
 114 100
 63 21.4 17.8 26.6
 88 16.5 13.4 20.2

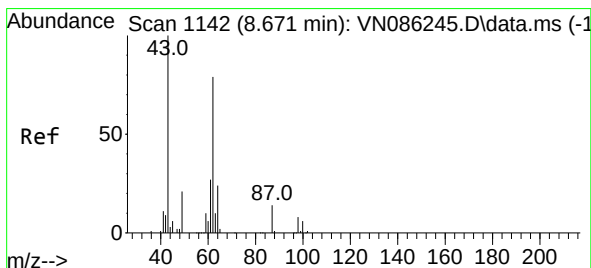
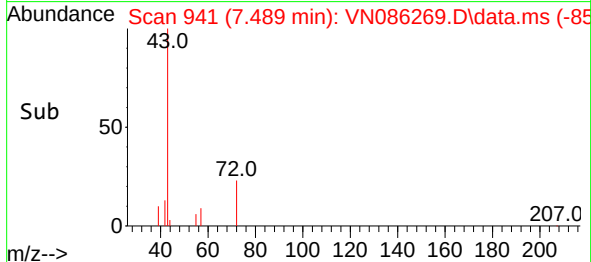
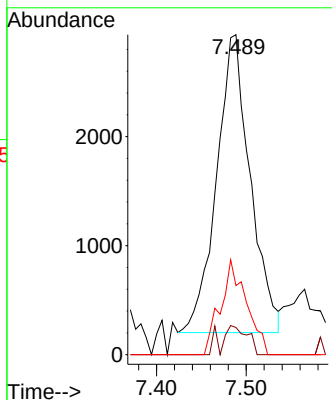
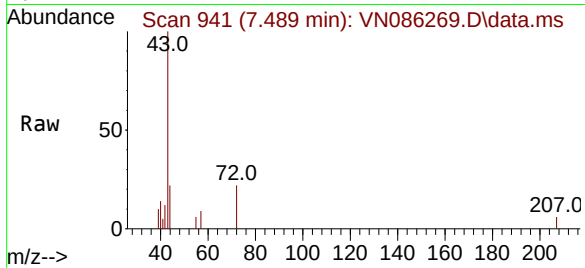




#30
2-Butanone
Concen: 3.671 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

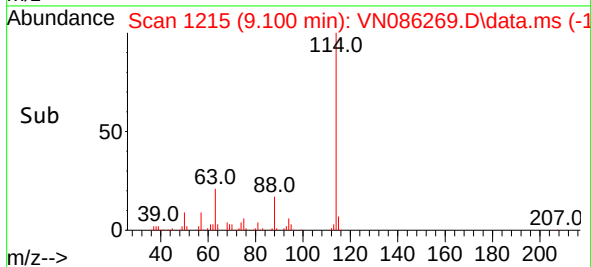
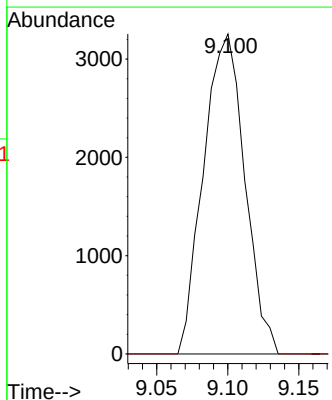
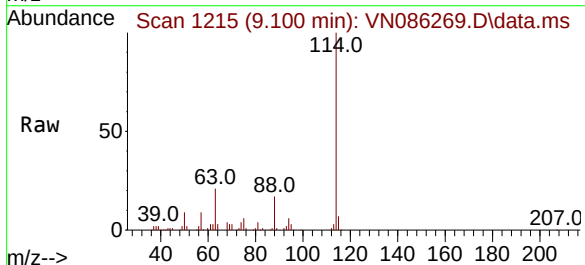
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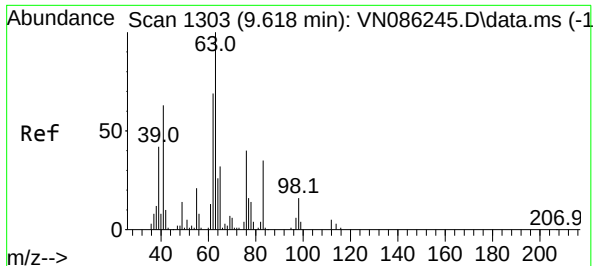
Tgt Ion: 43 Resp: 7107
Ion Ratio Lower Upper
43 100
57 5.3 6.4 9.6#
72 24.6 21.5 32.3



#36
1,2-Dichloroethane
Concen: 1.892 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.429 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

Tgt Ion: 62 Resp: 6581
Ion Ratio Lower Upper
62 100
98 0.0 8.6 12.8#





#39

1,2-Dichloropropane

Concen: 0.234 ug/l

RT: 9.730 min Scan# 1132

Delta R.T. 0.112 min

Lab File: VN086269.D

Acq: 14 Apr 2025 15:14

Instrument :

MSVOA_N

ClientSampleId :

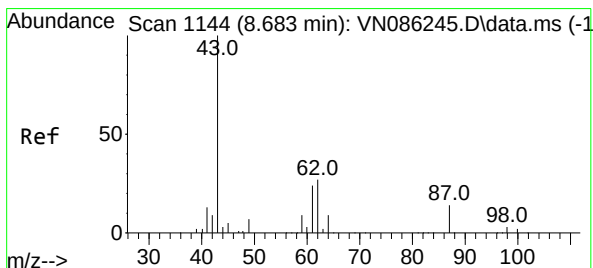
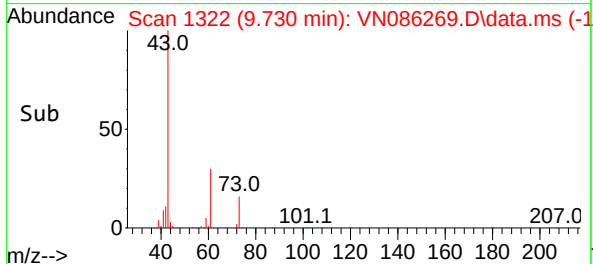
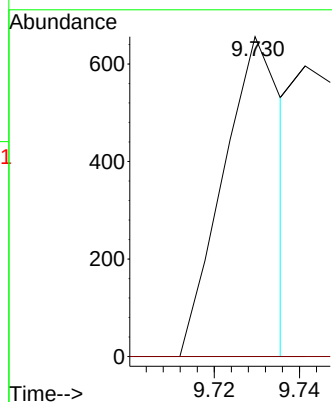
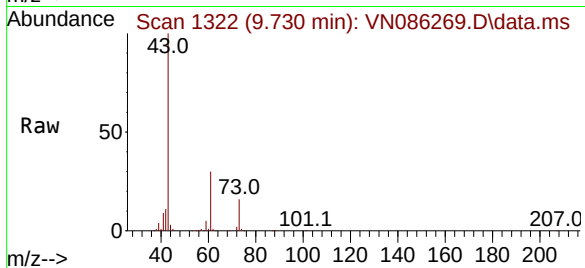
PB167573ZHE#09

Tgt Ion: 63 Resp: 646

Ion Ratio Lower Upper

63 100

65 0.0 26.0 39.0#



#44

Isopropyl Acetate

Concen: 6.471 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN086269.D

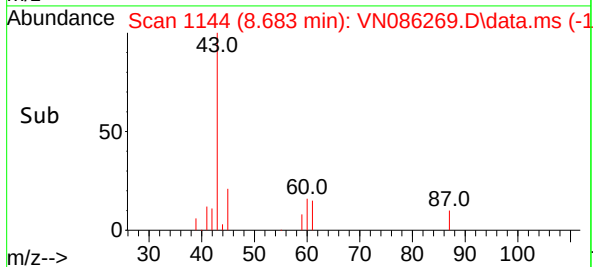
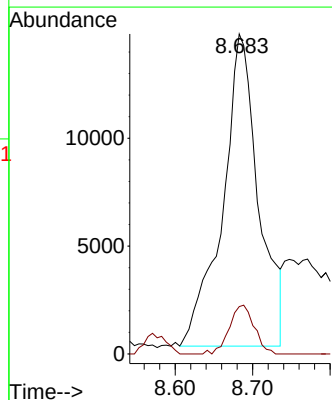
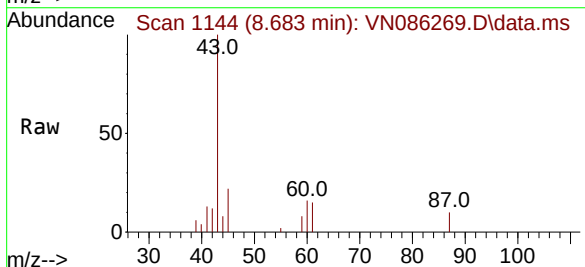
Acq: 14 Apr 2025 15:14

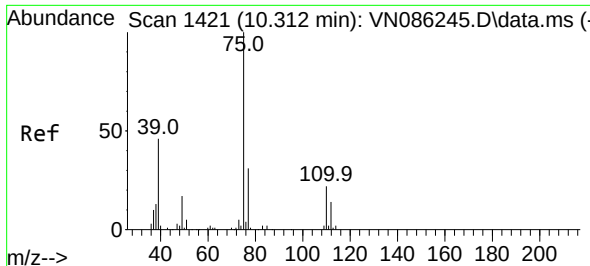
Tgt Ion: 43 Resp: 46874

Ion Ratio Lower Upper

43 100

61 10.7 20.5 30.7#

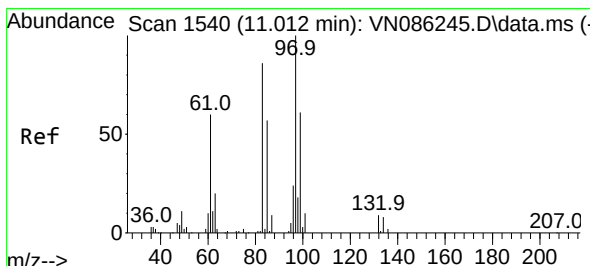
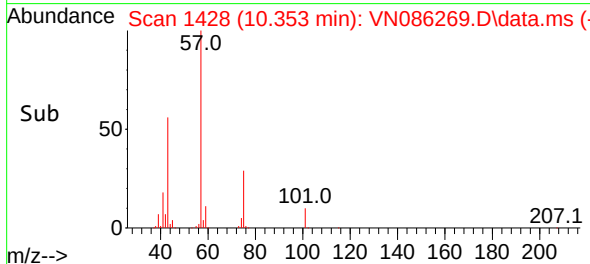
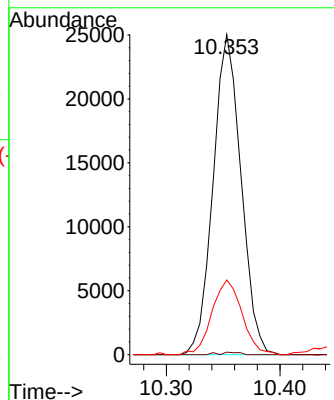
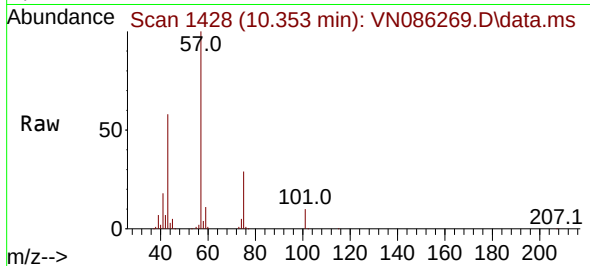




#49
 cis-1,3-Dichloropropene
 Concen: 9.305 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086269.D
 Acq: 14 Apr 2025 15:14

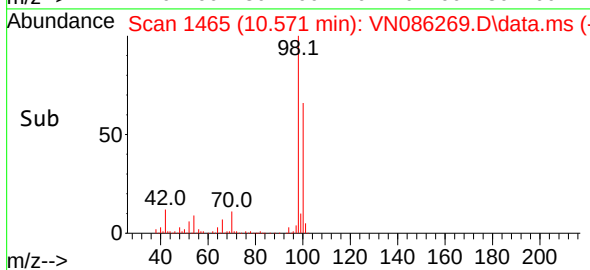
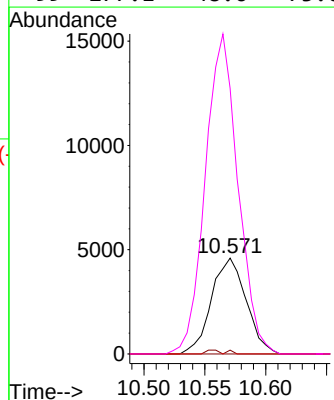
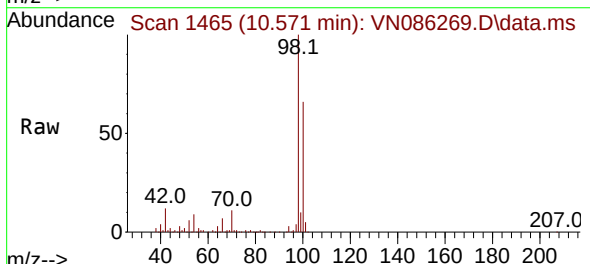
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167573ZHE#09

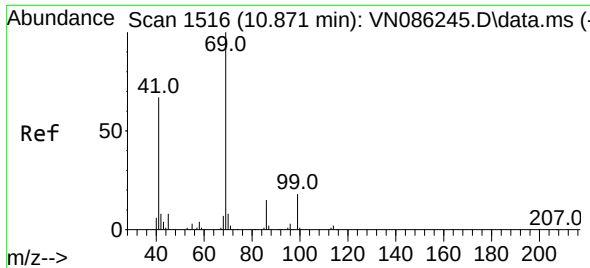
Tgt Ion: 75 Resp: 42723
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.0 37.4#
 39 23.3 36.7 55.1#



#50
 1,1,2-Trichloroethane
 Concen: 3.648 ug/l
 RT: 10.571 min Scan# 1465
 Delta R.T. -0.441 min
 Lab File: VN086269.D
 Acq: 14 Apr 2025 15:14

Tgt Ion: 97 Resp: 9138
 Ion Ratio Lower Upper
 97 100
 83 4.0 68.6 103.0#
 85 0.0 45.9 68.9#
 99 277.1 48.6 73.0#

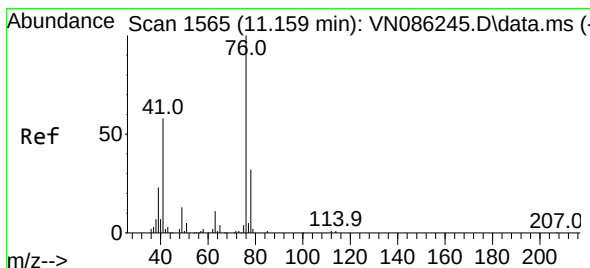
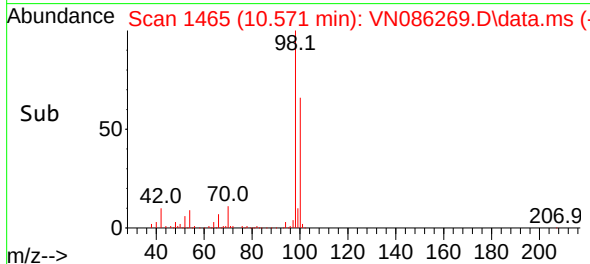
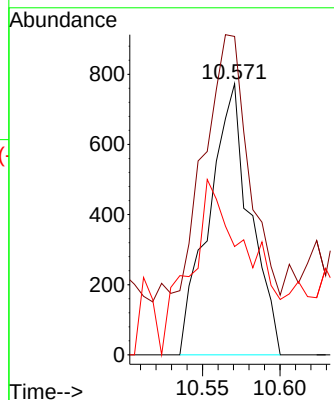
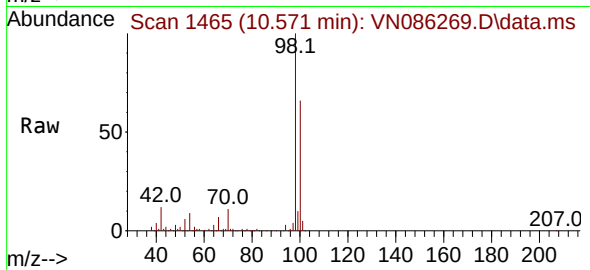




#51
Ethyl methacrylate
Concen: 0.306 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.300 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

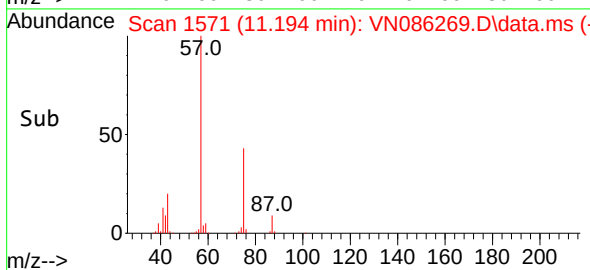
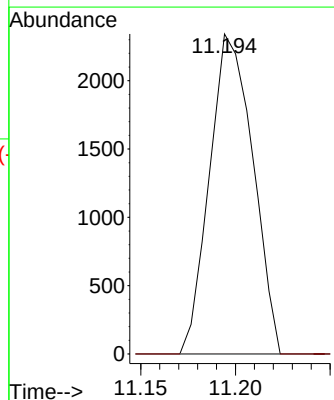
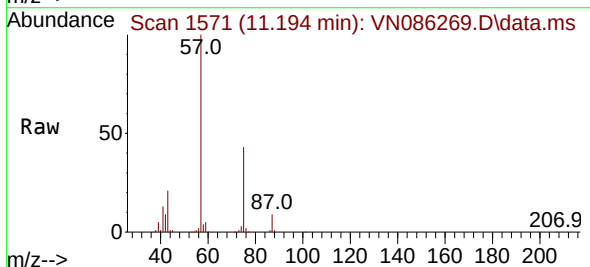
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#09

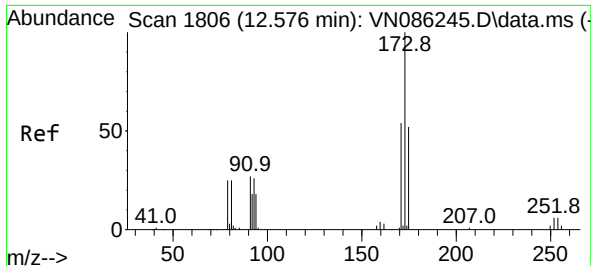
Tgt Ion: 69 Resp: 1425
Ion Ratio Lower Upper
69 100
41 95.5 33.6 100.6
39 19.5 17.8 53.4



#52
1,3-Dichloropropane
Concen: 0.834 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.035 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

Tgt Ion: 76 Resp: 3724
Ion Ratio Lower Upper
76 100
78 0.0 0.0 64.6

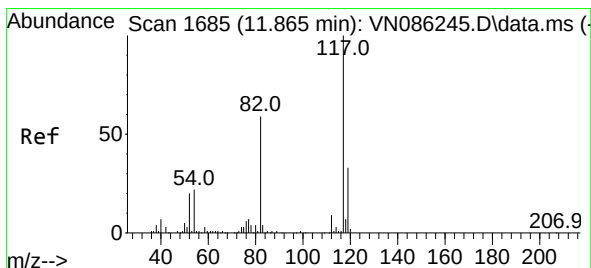
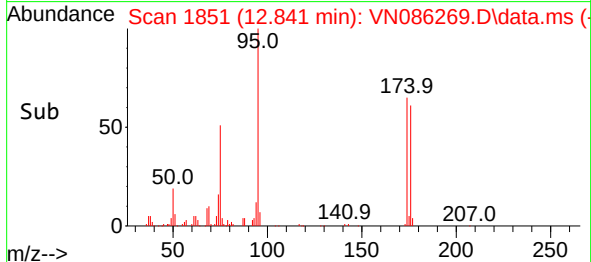
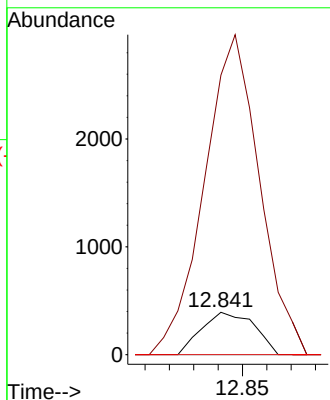
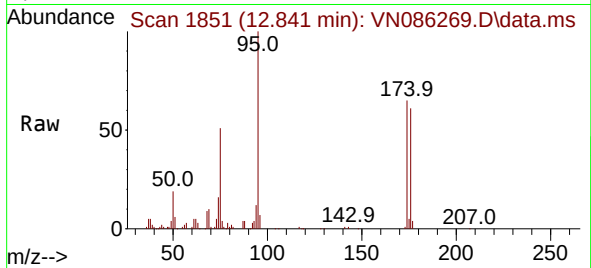




#56
Bromoform
Concen: 0.330 ug/l
RT: 12.841 min Scan# 1806
Delta R.T. 0.265 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

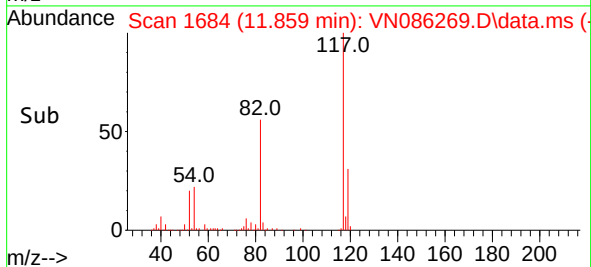
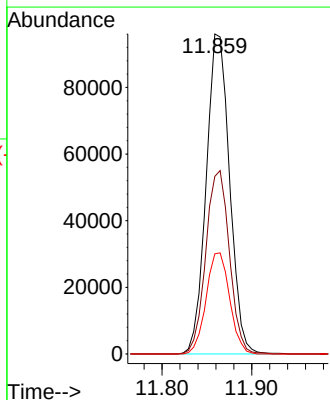
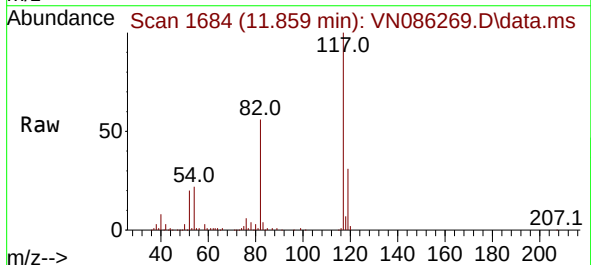
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#09

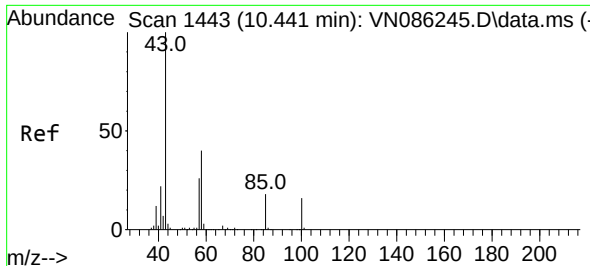
Tgt Ion:173 Resp: 592
Ion Ratio Lower Upper
173 100
175 790.9 38.2 57.4#
254 0.0 4.5 6.7#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.859 min Scan# 1684
Delta R.T. -0.006 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

Tgt Ion:117 Resp: 173995
Ion Ratio Lower Upper
117 100
82 57.9 47.3 70.9
119 31.7 25.9 38.9

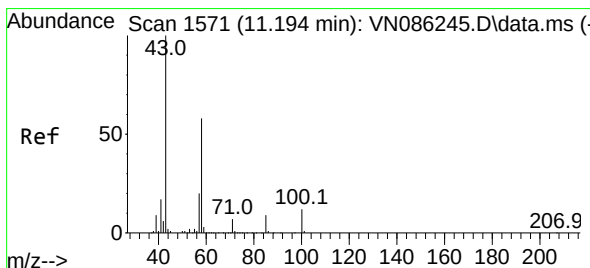
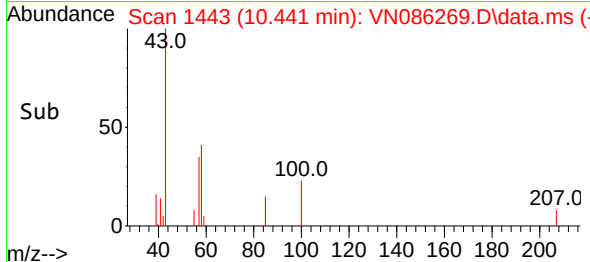
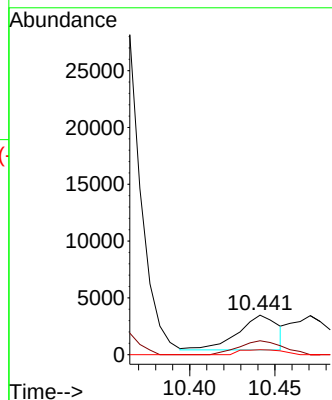
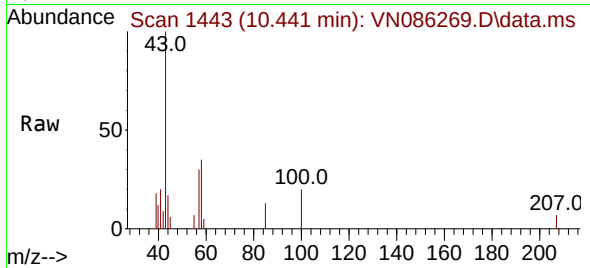




#58
4-Methyl-2-Pentanone
Concen: 1.271 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

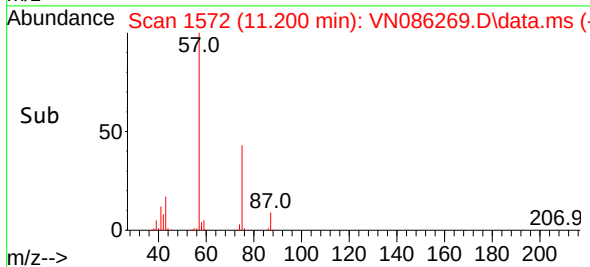
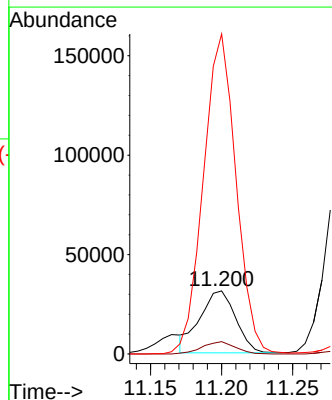
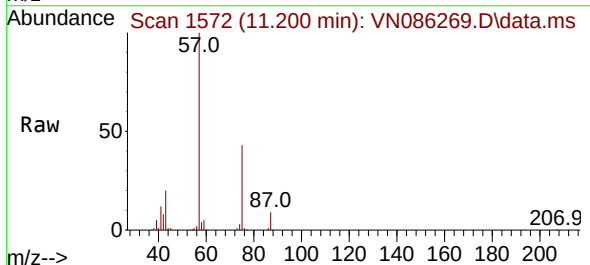
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#09

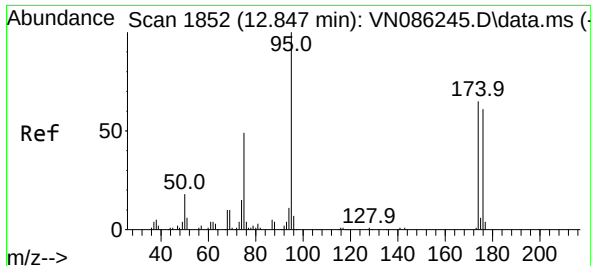
Tgt Ion: 43 Resp: 5019
Ion Ratio Lower Upper
43 100
58 43.3 32.5 48.7
85 0.0 14.4 21.6#



#59
2-Hexanone
Concen: 18.575 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

Tgt Ion: 43 Resp: 54612
Ion Ratio Lower Upper
43 100
58 18.3 45.3 67.9#
57 472.6 15.8 23.6#

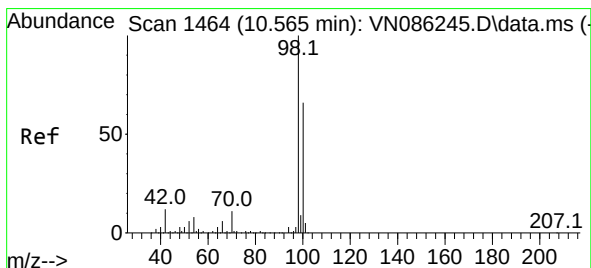
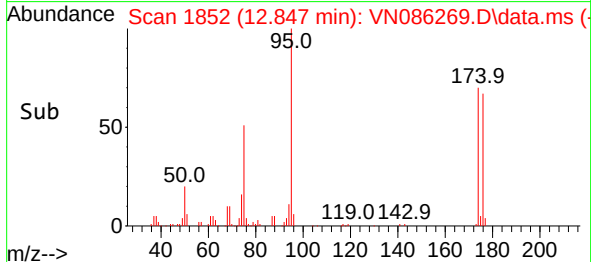
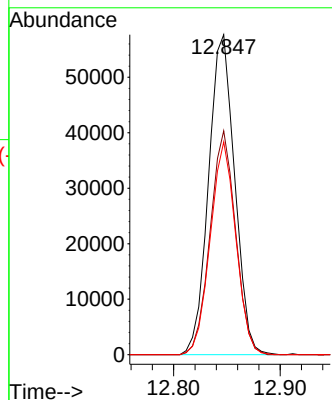
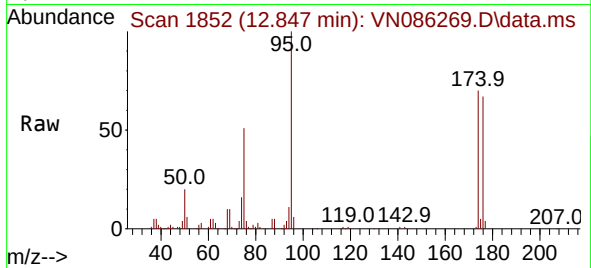




#60
4-Bromofluorobenzene
Concen: 28.390 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

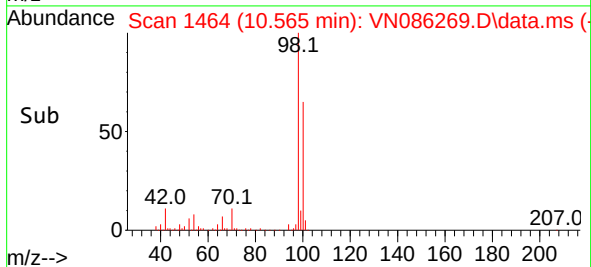
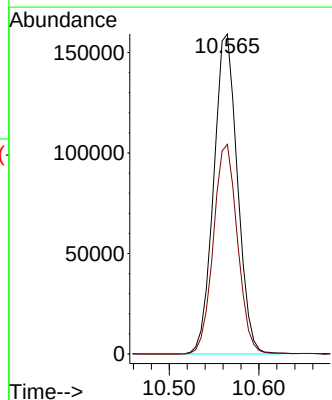
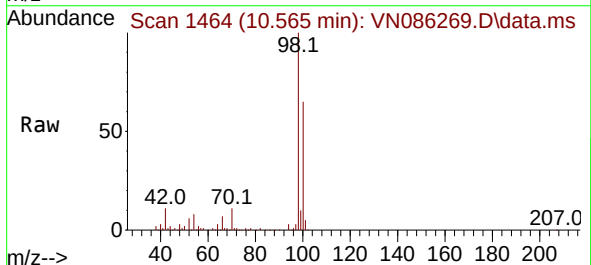
Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#09

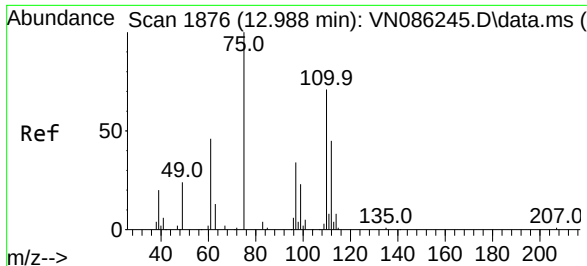
Tgt Ion: 95 Resp: 98349
Ion Ratio Lower Upper
95 100
174 68.0 52.7 79.1
176 64.9 49.8 74.8



#63
Toluene-d8
Concen: 29.842 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

Tgt Ion: 98 Resp: 293134
Ion Ratio Lower Upper
98 100
100 66.3 52.3 78.5

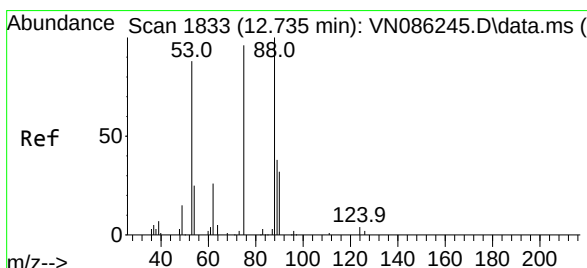
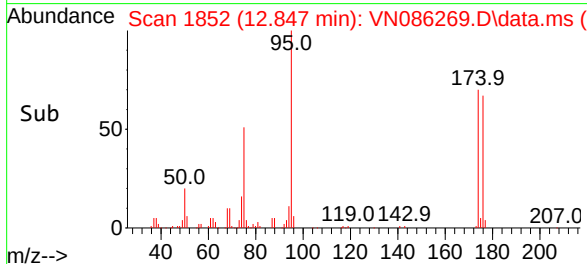
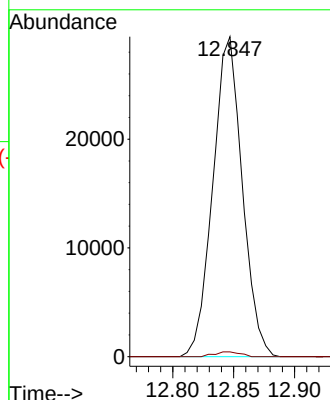
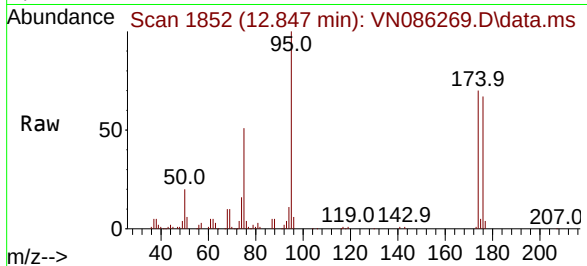




#72
1,2,3-Trichloropropane
Concen: 14.291 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

Instrument :
MSVOA_N
ClientSampleId :
PB167573ZHE#09

Tgt Ion: 75 Resp: 49421
Ion Ratio Lower Upper
75 100
77 1.3 0.0 380.0



#77
t-1,4-Dichloro-2-butene
Concen: 30.995 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086269.D
Acq: 14 Apr 2025 15:14

Tgt Ion: 75 Resp: 49421
Ion Ratio Lower Upper
75 100
53 0.0 46.4 139.2#
89 0.0 22.5 67.5#

